## IN THE CLAIMS

Please amend the following claims which are pending in the present application.

1. (Currently amended) A thermal interface material for thermal coupling of

an electronic component to a thermally conductive member, comprising:

a viscoelastic polymer matrix material;

fusible metal solder particles in the matrix material, having a melting

temperature below a selected temperature of 300°C; and

filler particles in the matrix material, having a melting temperature above

the selected temperature.

2. (Currently amended) The thermal interface material of claim 1 wherein the

matrix material comprises between 1 and 20% by weight of the thermal interface

material.

3. (Currently amended) The thermal interface material of claim 2 wherein the

matrix material comprises approximately 8% by weight of the thermal interface

material.

4. (Currently amended) The thermal interface material of claim 1 wherein the

matrix material is selected from the group consisting of a silicone, an amino

epoxy, and acrylate, an olifin olefin resin, a low viscosity vinyl and a phase-

change material.

5. (Original) The thermal interface material of claim 4 wherein the matrix

material is silicone.

6. (Currently amended) The thermal interface material of claim 5 wherein the

solder particles comprise between 1 and 99% by weight of the thermal interface

material.

7. (Currently amended) The thermal interface material of claim 6 wherein the

solder particles comprise at least 5% by weight of the thermal interface material.

8. (Currently amended) The thermal interface material of claim 7 wherein the

solder particles comprise between 25 and 90% by weight of the thermal interface

material.

9. (Original) The thermal interface material of claim 1 wherein the solder

particles are selected from the group consisting of In, InSn, InAg, SnAg, SnAgCu,

SnBi, InSnBi, InTi, InZr, InTiCeSe, and InAgTiSeCe.

10. (Original) The thermal interface material of claim 1 wherein the matrix

material is silicone and the solder particles do not substantially attack the silicone

when the solder particles melt.

(Original) The thermal interface material of claim 1 wherein the solder

particles have a melting temperature between 60 and 300°C.

(Original) The thermal interface material of claim 11 wherein the solder

particles have a melting temperature of approximately 157°C.

(Original) The thermal interface material of claim 1 wherein the solder

particles have widths of between 0.2 and 100 microns.

14. (Cancelled)

15. (Previously presented) The thermal interface material of claim 1 wherein

the filler particles comprise between 1 and 95% of the thermal interface material

by weight.

16. (Currently amended) The thermal interface material of claim 15 wherein

the filler particles comprise at least 10% by weight of the thermal interface

material.

17. (Currently amended) The thermal interface material of claim 16 wherein

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the filler particles comprise approximately 15% by weight of the thermal

interface material.

18. (Currently amended) The thermal interface material of claim 16 wherein

the solder particles and the filler particles comprise between 50 and 95% by

weight of the thermal interface material.

19. (Currently amended) The thermal interface material of claim 18 wherein

the solder particles and the filler particles comprise approximately 92% by

weight of the thermal interface material.

20. (Original) The thermal interface material of claim 16 wherein the filler

particles are selected from the group consisting of Ni, Cu, Ag, Ag/Cu, Sn,

graphite and Al.

21. (Original) The thermal interface material of claim 20 wherein the filler

particles are Al.

22. (Original) The thermal interface material of claim 16 wherein the filler

particles have a melting temperature above 350°C.

23. (Original) The thermal interface material of claim 16 wherein the filler

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particles have a melting temperature which is at least 100°C above a melting

temperature of the solder particles.

24. (Original) The thermal interface material of claim 16 wherein the filler

particles have a melting temperature which is at least 200°C above a melting

temperature of the solder particles.

25. (Currently amended) A thermal interface material for thermal coupling of

an electronic component to a thermally conductive member, comprising:

a viscoelastic polymer matrix material;

fusible metal solder particles in the matrix material, having a melting

temperature below 200°C and do not substantially attack the matrix material

when the solder particles are melted; and

filler particles in the matrix material, having a melting temperature above

400°C.

26. (Original) The thermal interface material of claim 25 wherein the matrix

material is silicone.

27. (Original) The thermal interface material of claim 26 wherein the filler

particles are aluminum.

28. (Currently amended) An electronic assembly comprising:

an electronic component which generates heat when operated;

. the annual intentage markenial between the electronic common on the

a thermally conductive member spaced from the electronic component; and

a thermal interface material between the electronic component and the thermally conductive member, the thermal interface material including a viscoelastic polymer matrix material, metal solder particles that are fused together so as to provide an unbroken thermal path for heat to conduct from the electronic component and the thermally conductive member and having a melting temperature below a selected temperature, and filler particles in the

29. (Original) The electronic assembly of claim 28 wherein the filler particles have a melting temperature which is at least 100°C above a melting temperature of the solder particles.

matrix material having a melting temperature above the selected temperature.

30. (Original) The electronic assembly of claim 29 wherein at least one of the filler particles is in contact with and entirely surrounded by one of the solder particles.

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